

(C) WPI / Thomson

AN - 1997-092628 [09]
 AP - JP19950139089 19950606
 CPY - MATU
 DC - A85 L03
 - X16
 DW - 199709
 IC - H01M10/40
 IN - EDA N; ISHIDA A; NISHIMURA M; OGAWA M
 LNKA- 1997-029727; 1997-076519
 MC - A11-B09A2 A12-E06 L03-E01B5 L03-E01C
 - X16-B01F1
 PA - (MATU) MATSUSHITA DENKI SANGYO KK
 PN - JP8329983 A 19961213 DW199709
 PR - JP19950139089 19950606
 XIC - H01M-010/40
 AB - Li battery is formed by lamination of polymer electrolyte combined
 positive electrode (1), low ionic conductive electrolyte layer (2),
 high ionic conductive electrolyte layer (3), and metal Li (4).
 - ADVANTAGE :
 Li polymer battery can suppress internal shortage caused by dendrite
 shape Li.
 INW - EDA N; ISHIDA A; NISHIMURA M; OGAWA M
 IW - LITHIUM POLYMER BATTERY SUPPRESS INTERNAL SMOOTH FORMING LAMINATE
 ELECTROLYTIC COMBINATION POSITIVE ELECTRODE LOW ION CONDUCTING HIGH
 METAL LITHIUM@
 IWW - LITHIUM POLYMER BATTERY SUPPRESS INTERNAL SMOOTH FORMING LAMINATE
 ELECTROLYTIC COMBINATION POSITIVE ELECTRODE LOW ION CONDUCTING HIGH
 METAL LITHIUM@
 NC - 1
 NPN - 1
 OPD - 1995-06-06
 PAW - (MATU) MATSUSHITA DENKI SANGYO KK
 PD - 1996-12-13
 TI - Lithium polymer battery suppression internal smoothness - formed by
 laminating polymer electrolyte combined positive electrode, low ionic
 conductive electrolyte, high ionic conductive electrolyte and metal
 lithium@.
 A01 - [001] 018; F0000
 - [002] 018; ND01; N9999 N7192 N7023; K9483; Q9999 Q7818; Q9999 Q8764;
 Q9999 Q7341 Q7330; Q9999 Q7409 Q7330; K9416; K9701 K9676; K9712 K9676

Title: **JP08329983A2: LITHIUM BATTERY**

Derwent: Lithium polymer battery suppression internal smoothness - formed by laminating
Title: polymer electrolyte combined positive electrode, low ionic conductive electrolyte,
high ionic conductive electrolyte and metal lithium.

Country: JP Japan

Kind: A

Inventor: NISHIMURA MASARU;
OGAWA MASAHIKO;
ISHIDA AKIKO;
EDA NOBUO;

Assignee: MATSUSHITA ELECTRIC IND CO LTD
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Application
Number:

IPC Code: Advanced: [H01M 10/40](#);
Core: [H01M 10/36](#);
IPC-7: [H01M 10/40](#);

Priority: 1995-06-06 JP1995000139089
Number:



Abstract: PURPOSE: To restrict the generation of internal short-circuit due to the lithium dendrite in a lithium polymer secondary battery.

CONSTITUTION: At least two layers of lamination polymer electrolyte layers 2, 3 having different ion conductivity are arranged between a negative electrode 4 for a lithium battery and a polymer electrolyte compound positive electrode 1 to form the lithium battery. The electrolyte layers are arranged so that the electrolyte layer, arranged in the negative electrode side has the ion conduction higher than that of the electrolyte layer, arranged in the positive electrode side.

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Family: None

Forward
References: Go to Result Set: [Forward references \(2\)](#)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6413675	2002-07-02	Harada; Gaku	NEC Corporation	Multi layer electrolyte and cell using the same
	US6365300	2002-04-02	Ota; Nobuhiro	Sumitomo Electric Industries, Ltd.	Lithium secondary battery

Other Abstract Info: CHEMABS 126(09)120098E CAN126(09)120098E [DERABS C97-092628](#) [DERC97-092628](#)



PATENT ABSTRACTS OF JAPAN

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(21) Application number: 07139089

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(71) Applicant: MATSUSHITA ELECTRIC IND CO LTD

(72) Inventor: NISHIMURA MASARU
 OGAWA MASAHIKO
 ISHIDA AKIKO
 EDA NOBUO

(54) LITHIUM BATTERY

(57) Abstract:

PURPOSE: To restrict the generation of internal short-circuit due to the lithium dendrite in a lithium polymer secondary battery.

CONSTITUTION: At least two layers of lamination polymer electrolyte layers 2, 3 having different ion conductivity are arranged between a negative electrode 4 for a lithium battery and a polymer electrolyte compound positive electrode 1 to form the lithium battery.

The electrolyte layers are arranged so that the electrolyte layer, arranged in the negative electrode side has the ion conduction higher than that of the electrolyte layer, arranged in the positive electrode side.

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